Cawangan Perak

UNIVERSITI TEKNOLOGI MARA

BUILDCON2023

COMPILATION OF PROJECT INNOVATION IDEAS
SEMESTER MARCH – AUGUST 2023

EMBRACING SMART CONSTRUCTION TRANSFORMATION

BUILDERS' CONVENTION DAY 2023

Department of Built Environment Studies and Technology
College of Built Environment
Universiti Teknologi MARA Perak Branch

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Organised by
Department of Built Environment Studies and Technology
College of Built Environment
Universiti Teknologi MARA Perak Branch
Malaysia

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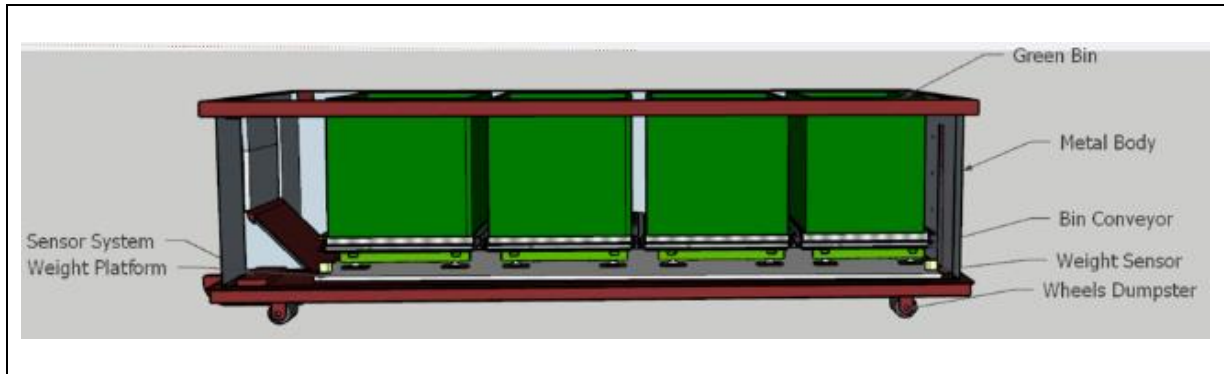Typesetting : Siti Akhtar Mahayuddin

WASTE TRACKER SYSTEM

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Waste Tracker System

Innovation Idea:

The Waste Tracker System in construction dumpsters represents a transformative solution for revolutionising waste management practices at construction sites. This innovative system seamlessly integrates with existing conventional dumpsters while incorporating advanced technology to optimise waste tracking, segregation, and disposal efficiency. Real-time monitoring of waste fill levels enables construction managers and project supervisors to make informed decisions, optimising waste collection schedules and reducing operational costs. The interior of the dumpster is intelligently equipped with the Waste Tracker System, allowing for efficient waste segregation, identification of recyclable materials, and increased recycling rates. By promoting responsible waste disposal practices, the system contributes to improved environmental sustainability, aligning with green building initiatives and regulatory requirements. The data analytics capabilities provide valuable insights into waste generation patterns, empowering construction companies to allocate resources effectively. Additionally, the Waste Tracker System ensures regulatory compliance, mitigating the risk of fines and penalties. This study highlights the multifaceted benefits of the Waste Tracker System, which empowers the construction industry to optimise waste management, minimise environmental impact, and demonstrate a strong commitment to sustainability.

Surat kami : 700-KPK (PRP.UP.1/20/1)
Tarikh : 20 Januari 2023

Prof. Madya Dr. Nur Hisham Ibrahim
Rektor
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Sekian, terima kasih.

"BERKHIDMAT UNTUK NEGARA"

setuju.

27.1.2023

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PROF. MADYA DR. NUR HISHAM IBRAHIM
REKTOR
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